

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

FORM PTO-2022 (1-88)

\* MAY BE USED FOR ADDITIONAL CLAIMS OR ADVERTISEMENTS

TOTAL CLAIMS		TOTAL DEF.		TOTAL IND.		TOTAL DEP.	
1	IND.	1	IND.	1	IND.	1	IND.
2	IND.	2	IND.	2	IND.	2	IND.
3	IND.	3	IND.	3	IND.	3	IND.
4	IND.	4	IND.	4	IND.	4	IND.
5	IND.	5	IND.	5	IND.	5	IND.
6	IND.	6	IND.	6	IND.	6	IND.
7	IND.	7	IND.	7	IND.	7	IND.
8	IND.	8	IND.	8	IND.	8	IND.
9	IND.	9	IND.	9	IND.	9	IND.
10	IND.	10	IND.	10	IND.	10	IND.
11	IND.	11	IND.	11	IND.	11	IND.
12	IND.	12	IND.	12	IND.	12	IND.
13	IND.	13	IND.	13	IND.	13	IND.
14	IND.	14	IND.	14	IND.	14	IND.
15	IND.	15	IND.	15	IND.	15	IND.
16	IND.	16	IND.	16	IND.	16	IND.
17	IND.	17	IND.	17	IND.	17	IND.
18	IND.	18	IND.	18	IND.	18	IND.
19	IND.	19	IND.	19	IND.	19	IND.
20	IND.	20	IND.	20	IND.	20	IND.
21	IND.	21	IND.	21	IND.	21	IND.
22	IND.	22	IND.	22	IND.	22	IND.
23	IND.	23	IND.	23	IND.	23	IND.
24	IND.	24	IND.	24	IND.	24	IND.
25	IND.	25	IND.	25	IND.	25	IND.
26	IND.	26	IND.	26	IND.	26	IND.
27	IND.	27	IND.	27	IND.	27	IND.
28	IND.	28	IND.	28	IND.	28	IND.
29	IND.	29	IND.	29	IND.	29	IND.
30	IND.	30	IND.	30	IND.	30	IND.
31	IND.	31	IND.	31	IND.	31	IND.
32	IND.	32	IND.	32	IND.	32	IND.
33	IND.	33	IND.	33	IND.	33	IND.
34	IND.	34	IND.	34	IND.	34	IND.
35	IND.	35	IND.	35	IND.	35	IND.
36	IND.	36	IND.	36	IND.	36	IND.
37	IND.	37	IND.	37	IND.	37	IND.
38	IND.	38	IND.	38	IND.	38	IND.
39	IND.	39	IND.	39	IND.	39	IND.
40	IND.	40	IND.	40	IND.	40	IND.
41	IND.	41	IND.	41	IND.	41	IND.
42	IND.	42	IND.	42	IND.	42	IND.
43	IND.	43	IND.	43	IND.	43	IND.
44	IND.	44	IND.	44	IND.	44	IND.
45	IND.	45	IND.	45	IND.	45	IND.
46	IND.	46	IND.	46	IND.	46	IND.
47	IND.	47	IND.	47	IND.	47	IND.
48	IND.	48	IND.	48	IND.	48	IND.
49	IND.	49	IND.	49	IND.	49	IND.
50	IND.	50	IND.	50	IND.	50	IND.
TOTAL CLAIMS		TOTAL DEF.		TOTAL IND.		TOTAL DEP.	

CLAIMS ONLY

APPLICANT(S)

100.24040

12-21-01

FILING DATE

SERIAL NO.